## DISCRETE ISOPERIMETRIC PROBLEMS IN SPACES OF CONSTANT CURVATURE

## Bushra Basit

Budapest University of Technology and Economics (Hungary) (Joint work with Zsolt Lángi)

It was proved by Böröczky and Peyerimhoff that among simplices inscribed in a ball in spherical and hyperbolic space, respectively, the regular simplices have maximal volume. In this lecture we show that among simplices circumscribed about a ball in hyperbolic space, the regular simplices have minimal volume. We also investigate analogous questions for d-dimensional spherical and hyperbolic polytopes with d + 2 vertices.